

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZES (L)	FUEL TYPE	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES	IDLING EMISSIONS CONTROL ESS			
				PROCEDURE	CLASS 2	DDI, TC(2), CAC, ECM, EGR-C,				
2008	8CPXH0763E1A	12.5	Diesel	Diesel	HHDD	SPL, PTOX				
NGINE (L)	ENGINE MODELS / CODES (rated power, in hp)									
12.5	See attachment for engine models and ratings									
+										
*	*									
*	•									
=liter; hp=h CNG/LNG	norsepower; kw=kilowatt; hi 3=compressed/liquefied natu	r=hour; ıral gas; LPG=liquefied	•	thanol fuel; MF=multi I	-	86.abc=Title 40, Code of Federal Regulations, Soil fuel; DF=dual fuel; FF=flexible fuel;	iection 86.abc;			
						ve catalytic reduction – urea / ammonia; WU -fuel-ratio sensor (a.k.a., universal or linear oxyg				

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavyduty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in g/bhp-hr	NMHC		NOx		NMHC+NOx		СО		PM		нсно	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	0.14	•	*	*	*	15.5	15.5	0.01	0.01	*	+
FEL	*	+	1.16	1,16	1.3	1.3	*	*	*	*	*	*
CERT	0.03	0.04	1.04	0.9	1.1	0.9	2.1	0.1	0.004	0.002	*	*
NTE	0.21		1.74		2.0		19.4		0.02		*	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde;

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this engine family, as applicable:

- certified under 13 CCR 1956.8(a)(6)(C) [30 g/hr NOx] and section 35.B.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" (HDDE Test Procedures) adopted Dec. 12, 2002, as last amended Sep. 1, 2006, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed;
- 2. certified under 13 CCR 1956.8(a)(6)(D) [alternatives to main engine idling] shall have an engine shutdown system meeting the requirements in 13 CCR 1956.8(a)(6)(A). The auxiliary power system (APS) equipping each engine in this engine family shall meet the requirements in 13 CCR 2485(c)(3)(A) [internal combustion] APS] and shall be provided with an approved "Verified Clean APS" label pursuant to 13 CCR 2485)c)(3)(D) [labeling] and section 35.B.4 of the incorporated HDDE Test Procedures. The "Verified Clean APS" label shall be affixed to the vehicle into which the engine is installed. See the Attachment for a description of the APS.

BE IT FURTHER RESOLVED: The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(b) [diesel engines] or 13 CCR 1956.8(d) [Otto engines] and the incorporated 40 CFR 86.007-15(m)(9).

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this

day of December 2007

Annette Hebert, Chief

Mobile Source Operations Division

(lbs/hr)@peak torqueDevice Per SAE J1930 9.Emission Control ς L EM DI,/TC, EM, DI, TC, EM, DI, TC, EM, DI, TC, EM, DI, TC. EM, D 8.Fuel Rate: 116.6 130.3 113.6 113.6 122.2 125.7 mm/stroke@peak torque 289 303 323 282 282 311

1450@1200

1650@1200

1650@1200

7.Fuel Rate:

4-Fuel Rate: 5.Fuel Rate:
mm/stroke @ peak HP (lbs/hr) @ peak HP 6.Torque @ RPM
(for diesel only) (for diesels only) (SEA Gross)

Engine Model Summary Template

1450@1200 1550@1200 1550@1200

161.2 156.8 161.2 161.2 156.8 161.2

266 259 266 266 259 266

425@1800 425@1800

3.BHP@RPM (SAE Gross)

> 2. Engine Model C13C13 C13 C13 C13 C13

1.Engine Code

Engine Family

8CPXH0763E1A 8CPXH0763E1A 8CPXH0763E1A

425@1800

58 59

> 3CPXH0763E1A 8CPXH0763E1A

57

425@1800

425@1800

9

61

3CPXH0763E1A

425@1800

TOO, TREE, FRE, FRE, SPL,

Name of the last o	-		- company to company	- company	ATTACHENT
EM, CI, IV.	EM, DI, TG,	EM, DI, TC	EM, DI, TC,	EM, DI, TC,	PAGEO),
113.6	116.6 ر	122.2	125.7	130.3	TCC3, TCC3, FCM,
787	289	303	311	323	
1450@1200	1550@1200	1550@1200	1650@1200	1650@1200	
161.2	156.8	161.2	164.9	163.6	
266	259	266	272	270	
425@1800	425@1800	425@1800	445@1800	445@1800	
C13	C13	C13	C13	C13	
62	63	64	65	99	
8CPXH0763E1A	8CPXH0763E1A	8CPXH0763E1A	8CPXH0763E1A	SCPXH0763E1A	